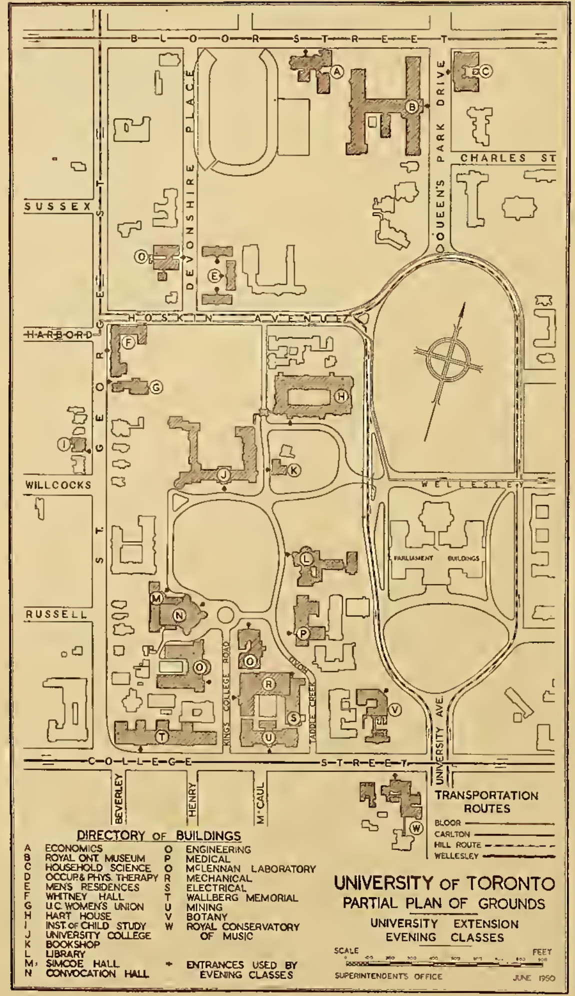

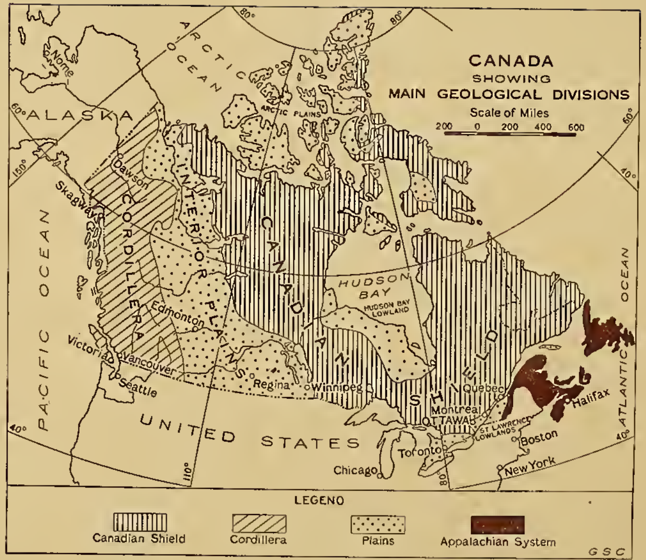

Courtesy of Canadian Geographical Journal.

UNIVERSITY OF TORONTO
UNIVERSITY EXTENSION

A POPULAR COURSE ON THE CANADIAN MINERAL INDUSTRY

TWENTY LECTURES
WEDNESDAY EVENINGS

Oct. 11 to Dec. 13, 1950; Jan. 10 to Mar. 14, 1951

The Story of the Metal and Mineral Industry should be one of compelling interest to every Canadian.

This Course of lectures is designed to present, not technical detail, but the overall story of a great Canadian industry in understandable language with pictorial illustration. It will emphasize the achievements of a half century of human effort which is in large measure responsible for the important part Canada now plays as a major producer of minerals for world consumption.

The search for and recovery of Canada's mineral wealth is interwoven with her growth to maturity as a united country and the influence she now wields in world affairs.

Experts in each field will deal with such topics as the discovery and recovery of gold and silver; iron and steel; copper, lead, zinc; radioactive and industrial minerals; coal, oil and natural gas.

These metals and minerals have become so much a part of our day-to-day living that their story is of equal interest to the housewife, the man in the factory, the investor, the student and the scientist.

This Course has been arranged in co-operation with the following Departments of the University of Toronto:

Geological Sciences
Metallurgical Engineering
Mining Engineering
Physics (Geophysics Laboratory)

A POPULAR COURSE ON THE CANADIAN MINERAL INDUSTRY

PART I—10 LECTURES

October 11th to December 13th, 1950

1. October 11th: THE ROMANCE AND GROWTH OF THE CANADIAN MINERAL INDUSTRY

   A colourful description interwoven with personal reminiscences of the discovery and development of mining areas across the Dominion with special emphasis on the last fifty years.

   Lecturer: Dr. Charles Camsell, C.M.G., formerly Deputy Minister of Mines, Ottawa.

2. October 18th: THE CANADIAN MINERAL INDUSTRY TO-DAY

   The Story of the Productive areas from Newfoundland to the Yukon.
   Asbestos, coal, copper, gold, iron, lead, magnesium, nickel, petroleum, platinum, zinc, etc.

   Lecturer: Dr. A. W. Joliffe, Professor of Geology, Queen's University, formerly Geologist, Geological Survey of Canada.

3. October 25th: THE GEOLOGY OF MINERAL DEPOSITS

   Theories of the origin and formation of metals, nonmetals, and petroleum.

   Lecturer: Dr. George B. Langford, Professor of Geological Sciences and Head of the Department, University of Toronto; formerly Geologist, McIntyre Mines, etc.

4. November 1st: DISTRIBUTION OF MINERAL DEPOSITS

   Where mineral deposits are found and why.

   Lecturer: Dr. George B. Langford.

5. November 8th: MODERN PROSPECTING

   The use of modern scientific instruments and techniques in the search for metals and oil.

   Lecturer: George Shaw, M.Sc., Chief, Geophysics Section, Geological Survey of Canada.

6. November 15th: OPERATION OF A METAL MINE

   The modern practices in underground mining.

   Lecturer: Professor R. E. Barrett, Professor of Mining Engineering and Head of the Department, University of Toronto.

7. November 22nd: PROCESSING THE PRODUCTS OF A MINE

   Concentrating, cyanidation and smelting.

   Lecturer: R. M. P. Hamilton, B.Sc., President, General Engineering of Canada Limited.

8. November 29th: AN OIL WELL—FROM SPUDDING IN TO PRODUCTION

   Modern drilling and production practices.

   Lecturer: Vernon Taylor, B.A., B.Sc., Operations Advisor, Imperial Oil Company Limited.

9. December 6th: TRANSPORTATION AND REFINING OF PETROLEUM

   Economics of pipe lines.
   Water transportation.
   Refining methods.

   Lecturer: W. M. V. Ash, B.A., President, Shell Oil Company of Canada Limited.

10. December 13th: THE PROFESSIONAL MAN AND THE MINERAL INDUSTRY

    The important role of geologists, mining engineers, metallurgists, lawyers and financiers, and the part of the universities in their training.

    Lecturer: Dr. R. C. Wallace, Principal, Queen's University.

PART II—10 LECTURES

January 10th to March 14th, 1951

1. January 10th: NON-FERROUS METALS

   The story behind Canada's production of lead, zinc, copper, magnesium, tin, etc.

   Lecturer: Dr. L. M. Pidgeon, Professor of Metallurgical Engineering and Head of the Department, University of Toronto.

2. January 17th: THE NOBLE METALS

   The history of the usefulness of gold, silver, platinum, mercury, etc., in the service of mankind, and Canada's position as world producer of these metals—past, present and future.

   Lecturer: H. C. Rickaby, M.A., Deputy Minister of Mines, Province of Ontario.

3. January 24th: THE STORY OF METALS

   Metals and alloys from the viewpoint of their properties and resulting usefulness. The basic principles of physical metallurgy.

   Lecturer: Dr. John Convey, Chief, Division of Physical Metallurgy, Bureau of Mines.

4. January 31st: THE IRON INDUSTRY

   The iron and steel industry in Canada from the mines to the furnace.

   Lecturer: Dr. Gordon E. Willey, Chief Metallurgist, Algoma Steel Corporation.

5. February 7th: INDUSTRIAL MINERALS

   The occurrence and production of clay products, cement, asbestos, gypsum, salt, etc., and their importance in our industrialization.

   Lecturer: Dr. D. F. Hewitt, Geologist, Ontario Department of Mines.

6. February 14th: OIL AND NATURAL GAS

   The oil and gas fields of Canada, with special emphasis on those in the West.

   Lecturer: Dr. J. D. Weir, Vice-President, Exploration, California Standard Company.

7. February 21st: COAL IN CANADA

   Our great reserves and the problem of the coal industry.

   Lecturer: Dr. B. R. MacKay, Geologist, Geological Survey of Canada.

8. February 28th: GOVERNMENT SERVICES AND THE MINERAL INDUSTRY

   How the Provincial and Federal Government Services aid the Mineral Industry.

   Lecturer: Ralph Maybank, M.P., Parliamentary Assistant to the Minister of Mines, Ottawa.

9. March 7th: FINANCING A MINE FROM PROSPECT TO PRODUCER

   Raising capital for prospecting, developing and operating mines.

   Lecturer: F. Willcox, C.A., Assoc. C.I.M., Vice-President and Managing Director, Corporation Management Limited.

10. March 14th: THE CANADIAN MINERAL INDUSTRY IN THE NATIONAL ECONOMY

    The dependence of Canada's position as an industrial nation on her mineral resources.

    Lecturer: V. C. Wansbrough, M.A., Executive Director, Canadian Metal Mining Association.

Place: 135 McLennan Laboratory

Time: Wednesdays, 8 p.m., beginning Oct. 11th

Fee: $15.00 for 20 lectures

Please make cheques payable to the UNIVERSITY OF TORONTO, at par Toronto.